: CROSSTUBE EXTRUSION (412 AFT)

Monday, 1/30/2006 3:43:52 PM

/ User:

Kim Johnston

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number Estimate Number : 25668

: 10030

P.O. Number This Issue

:NA

: 1/30/2006

S.O. No. : NIA

: NC

: NIA

: NIA

: LANDING GEAR Type

Part Number

Drawing Name

: D6009129

Drawing Number

. D6009 REV A

Project Number

: N/A

Drawing Revision Material

MU:

Due Date

: 6/1/2006

Qty:

20 Um:

Each

Written By

Prsht Rev.

First Issue

Previous Run

Checked & Approved By

Comment

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0 PG

PURCHASING



Comment: PURCHASING

Issue P/0: 00000505

a) Order as per Dwg D6009

b) Material: 3.500 x 0.625 wall 7075-T6/T6511 (WW-T-700/7 or

QQ-A-225/9 or QQ-A-200/11) seamless

aluminum tube

c) Minimum ultimate tensile strength = 77 ksi

d) Minimum tensile yield strength = 66 ksi

e) Tolerance are per ASTM B210 (see details on Dwg D6009)

f) Material certification required

2.0

PACKAGING 1

PACKAGING RESOURCE #1







Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure material certification is attached

CZ04128104



3.0

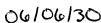
QC6





Comment: DIMENSIONAL CHECK

Ensure Material certification comply to Dwg D



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4.0

HAND FINISHING1

HAND FINISHING RESOURCE #



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1









Dart Aerospa	ce	Ltd
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W/O:		WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
į.													
Part No):	PAR #: Fault Category:	NCR: Yes	No DQ	A:		X/04 04						

NCR:			WORK ORDER NON-CONFORMANCE (NCR)											
		De	scription of NC		Corrective Action Section I	3	Verification	A	A					
DATE	STEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector					
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NOTE: Date & initial all entries

Ďate:

Monday, 1/30/2006 3:43:53 PM

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Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: CROSSTUBE EXTRUSION (412 AFT)

Job Number: 25668

Part Number: D6009129

Job Number:



Seq. #:

5.0

Machine Or Operation:

PACKAGING 1

Description:

PACKAGING RESOURCE #1

Comment: PACKAGING RESOURCE #1

Identify and Stock
Location:

DOCUMENT CONTROL

me 06/06/30

6.0

DC

Comment: DOCUMENT CONTROL

Inspection Level 21

Job Completion



1 0 600 710

Dart Ae	rospace L	td								
W/O:			W	ORK ORDER CHA	NGES					
DATE	STEP	PR	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		2								
		1								
Part No	•	PAR #:	Fault Cate	gory:	NC	R: Yes	No DQ	A:	_ Date: _	
						QA: N	/C Close	d:	_ Date: _	
NCR:			WORK ORD	ER NON-CONFO	RMANCE	(NCF	<u>(</u>)			
		Description of NC	cription of NC Corrective Action Section				Verific	ation	Ammanal	Annroyal
DATE	STEP	Section A	Initial Chief Eng	Action Descript Chief Eng	on	Sign & Date	Secti		Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries





DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO,	
CHECKED	APPROVED	DRAWING NO.	REV. A
1	1	D6009	SHEET 1 OF 1
DATE		TITLE	SCALE
01.08.16		CROSSTUBE MATERIAL	. 1:1
Α	01.08.16	NEW ISSUE	c

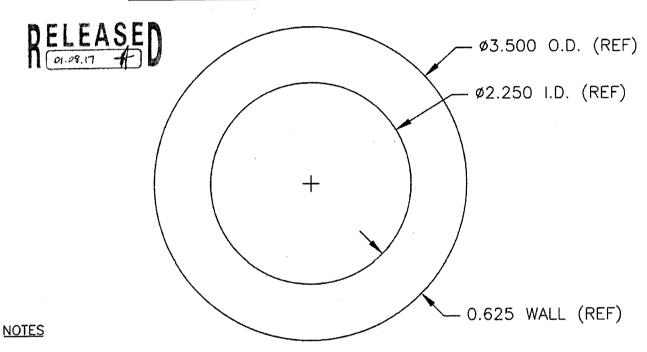
EINCONTROLLED COPY

SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORK ORDER

SPECIFICATION CONTROL DRAWING



1) D6009-XXX CROSSTUBE LENGTH

WHERE XXX IS LENGTH IN INCHES EG. 129" LONG TUBE: D6009-129

2) MATERIAL: 3.500 OD x 0.625 WALL 7075-T6/T6511 (WW-T-700/7 OR QQHAY 205/9 OR QQ-A-200/11) SEAMLESS ALUMINUM TUBE. RETURN TO ENGINEERING

MINIMUM ULTIMATE TENSILE STRENGTH = 77 ksi MINIMUM YIELD TENSILE STRENGTH = 66 ksi

3) TOLERANCES ARE PER ASTM B210 AS FOLLOWS: O.D.: ± 0.008 MEAN (±0.016 INCLUDING OVALITY)

WALL: ±0.020 MEAN (±0.063 INCLUDING ECCENTRICITY) LENGTH: XXX +0.188/-0.000

STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH 4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

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Dart Aerospace Ltd

Dail Ae	105pace L	iu ;							
W/O:	,		WC	RK ORDER CHANGE	S			- T-17-2-17	
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No:		PAR #:	Fault Cateç	gory:				Date: _ _ Date: _	
NCR:			WORK ORDE	ER NON-CONFORMAN					
				Corrective Action Section		1			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		fication ction C	Approval Chief Eng	Approval QC Inspector
		!							
		į					:		

NOTE: Date & initial all entries



Abnahmeprüfzeugnis 3.1 - EN 10204:2004

Inspection Certificate 3.1 - EN 10204:2004 | Certificat de Reception 3.1- EN 10204:2004

Kunde: Client:

Dart Aerospace Ltd.

Zeugnisnummer: Cert No.: / No. du certificat: 363/06

1270 Aberdeen Street

Hawkesbury, ON

Bestellnummer:

PO00000505

K6A1K7

Order No. / No. de commande

Produkt:

Rohre nahtlos gepresst

Auftrag:

17486/9

Product / Produit:

Tubes seamless extruded -; AMS - QQ - A - 200/11E; -; -; - Our Reference/Notre Reference:

Spezifikation: Specification:

Werkstoff:

7075

Zustand:

T 6511

Alloy/Alliage:

3,500 INCH

Temper/État

Abmessung Size / Dimension

D6009-129 3.500 X 0.625 X 129

x 2,250 INCH x 0,625 INCH x 129,000 INCH

Kennzeichnung

Canada

ALUnna-Cert No.363/06-7075-T6511-Cast No.80117-QQA-200/11E-3.500" OD X 0.625"Wall-Heat No.421/04-

Marking/Marquage:

Lieferung

Lot17486/9-1-P.O.00000505

pcs.

1629

Pelivered Material / Matérial délivre:

22

Chemical Analysis / analyse chimique

~1. Che	emis	che Al	nalyse	,	Chem	nical Ar	nalysis ,	/ analy	rse chii	nique				
27 077]	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/	min.			1,2		2,1	0,18	5,1						
Cast No.	max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20					
80117		0,07	0,15	1,53	0,04	2,48	0,19	5,87	0,04	<0,05				

Elements without indication < 0,01 %

2. Mechanische Eigenschaften

Mechanical Properties / Valeurs Mécaniques

Anforderungen	tensile	yield	elongation	elongation	Hardness	Heat No.
Requirements	(Rm) ksi	(Rp0,2) ksi	2" %	A %	HB	
min. max.	77,0	66,0				
1	87,580	80,910	11,5	11,5	179	421/04 - 22 pcs.
2	87,145	80,330	10,5	10,5	170	
3	87,000	79,895	10,5	10,5	166	
4	87,290	80,475	10,0	10,0	180	

Ergebnis der Prüfungen:

Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellannahme entspricht

Test results: Resultats:

We confirm that the delivery has been tested and applies to the agreements made on receipt of the order Nous confirmons que la livraison a été controlée et correspond avec les conventions faites à la réception de la commande

